

CLAIMS

What is claimed is:

1. A method for treating tissue burns, comprising:

 situating at least one substance comprising saline substantially adjacent to said tissue;

 affixing at least one ultrasonic signal emitting device substantially adjacent to said at least one substance; and,

 applying at least one ultrasonic signal emitted from said at least one ultrasonic signal emitting device to said at least one substance so as to effect movement of at least a portion of said at least one substance into said tissue.
2. The method of claim 1, wherein said at least one ultrasonic signal has a frequency range between about 15 kHz and about 5 MHz.
3. The method of claim 1, wherein said at least one ultrasonic signal has an intensity range between about 125-mW/sq. cm and about 225-mW/sq. cm.

4. The method of claim 1, wherein said at least one ultrasonic signal comprises about two alternating waveforms.
5. The method of claim 4, wherein said waveforms comprise a substantially square waveform portion.
6. The method of claim 4, wherein said waveforms comprise a substantially sawtooth waveform portion.
7. The method of claim 1, wherein said tissue comprises skin.
8. The method of claim 1, wherein said at least one substance is contained within an absorbent transdermal apparatus, and wherein said absorbent transdermal apparatus releases at least a portion of said at least one substance when said at least one signal is applied to said absorbent transdermal apparatus.
9. The method of claim 8, wherein said at least one ultrasonic signal emitting device is located within said absorbent transdermal apparatus.
10. The method of claim 8, wherein said absorbent transdermal apparatus is selected from the group consisting of a pad, patch, bandage, and wrap.

11. The method of claim 8, wherein said at least one ultrasonic signal emitting device comprises at least one transducer element.

12. The method of claim 11, wherein said at least one transducer element comprises an array of transducers coupled to said absorbent transdermal apparatus.

13. The method of claim 1, wherein said at least one ultrasonic signal emitting device comprises a cymbal type flat transducer.

14. The method of claim 1, wherein said at least one ultrasonic signal emitting device comprises an array of stacked transducers.